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(54) 2-AMINO-DIPYRIDO (1,2-A; 3',2'-D) IMIDAZOLE
DERIVATIVE, ITS PREPARATION AND
MUTAGENIC AGENT THEREFROM

(57) Abstract:

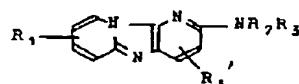
NEW MATERIAL: 2-Amino-dipyrido [1,2-a; 3',2'-d] imidazole derivatives of formula I (R_1 is H, hydroxyl, halogen, lower alkyl, lower alkoxy; R' is H, lower alkyl; R_2 and R_3 are H, lower alkyl, acyl).

EXAMPLE: 2-Amino-6-methyldipyrido [1,2-a; 3',2'-d] imidazole.

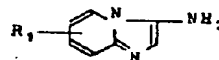
USE: Mutagenic agent; they are used to induce the mutation in microorganisms and improvement of plants, having stronger activity than known mutagens.

PREPARATION: Some compounds of formula I can be obtained by pyrolysis of glutamic acid. Industrially, the compound of formula V prepared from a compound of formula II and a compound of formula III or IV is, when desired, alkylated or acylated to give the compound of formula I.

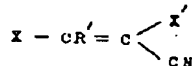
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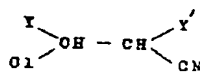
I



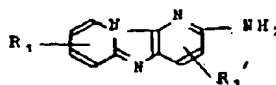
II



III



IV



V